RAW SEQUENCE LISTING

PATENT APPLICATION: **US/09/881,556A**

DATE: 04/18/2003

TIME: 14:25:46

Input Set : **N:\Crf4\04082003\I881556.raw**

Output Set: **N:\CRF4\04182003\I881556A.raw**

```
 1 <110> APPLICANT: Simonsen, J. Neil
 2 <120> TITLE OF INVENTION: Cryptosporidium Parvum Antigens, Antibodies Thereto and
Diagnostic and
 3         Therapeutic Compositions Thereof
 4 <130> FILE REFERENCE: SASK-008/01US
 5 <140> CURRENT APPLICATION NUMBER: US/09/881,556A
 6 <141> CURRENT FILING DATE: 2001-06-14
 7 <150> PRIOR APPLICATION NUMBER: US 60/212,083
 8 <151> PRIOR FILING DATE: 2000-06-15
 9 <160> NUMBER OF SEQ ID NOS: 6
10 <170> SOFTWARE: PatentIn version 3.1
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 1380
14 <212> TYPE: DNA
15 <213> ORGANISM: Cryptosporidium parvum
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18      attaaatatg gaggaaaaac agtcaatgag caatccacaa tcgaaaaata cgaatacaag     120
19      caataccaac cacaaagatt ctggtttaaa tgataaaata tttgaaatga ttacagatga     180
20      attcaaaaaa ttgacctta gcttgtccaa agaattaaat gattcggttt cttcagcaat      240
21      tagcaagtat ttagaaccga tcgaacgtga tatacatcta ttaagtcgca tttgtcagga     300
22      atcgagaagt ctgttgataa ttatgttaat atcaatgaaa tttctaaaat tgaaacaaat     360
23     -gttaaggaac ttcttacaag tacaaatgag aaattaacaa gcatcgacac ttgtatttcg     420
24      aggcttgttg gcgaatctag aagcgttcgt gaaaagtga ctaaattaaa taaacaatgc      480
25      gataacatta actcgaatcc aatagacaac tttactcaag tagtagcaga ttcatttggg     540
26      acattaacta atgcagttac tcaattgcaa acaactgtta atcgtttgga attacagatc     600
27      agtaatggaa taccactaaa aacgtcttac accagataac tcaattacaa taagagcgcc     660
28      ccaaaacata gctttgcaaa ttgatgatgc cttaaaccaa aacattacga tcggcatttc     720
29      ggatagcaat tctggatcaa tctaactcta tctcaatcag ataagagaga aatccaagcg     780
30      gagaatgttt tgttttgaac cttgcatata agtttgaccc atgtgtttgg ttggatgatc     840
31      cagcttccta ttagccatcc agtaatatta ggaatttcaa aaattttgag cgatactctt     900
32      cctcatttaa ttgaatcttt aaagaccagc tgtaattttt ctcaaattag ctgcatttca     960
33      gatttaaaat tgagaatatt atggataaaa gaaaccattc actgttttga accatttact    1020
34      gatactctta cacctagtga gtaatgcaaa tactaaatga aatttcagaa gtatgaacaa    1080
35      atgcattagc attataaatt cggttagcga tgcaagtaaa agcatgaact atattgtacc    1140
36      tgcatgcttc acggatgggt cgatcatcag tgatattact agcatattaa ggcatattag    1200
37      aaggacaact agaaatatta catctggaat gaaataaatt aataaggggt agaattagat    1260
38      atttttcatg taaataaatt agcgttattg aggattattc gaaataaata atagagatat    1320
39      taagtttagt ttttatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaactcgag    1380
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 129
43 <212> TYPE: PRT
44 <213> ORGANISM: Cryptosporidium parvum
45 <400> SEQUENCE: 2
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47        1               5                   10                  15
48        Thr Thr Leu Asn Met Glu Glu Lys Gln Ser Met Ser Asn Pro Gln Ser
49                    20                  25                  30
50        Lys Asn Thr Asn Thr Ser Asn Thr Asn His Lys Asp Ser Gly Leu Asn
51                    35                  40                  45
52        Asp Lys Ile Phe Glu Met Ile Thr Asp Glu Phe Lys Lys Leu Thr Phe
53                50                  55                  60
54        Ser Leu Ser Lys Glu Leu Asn Asp Ser Val Ser Ser Ala Ile Ser Lys
55        65                  70                  75                  80
56        Tyr Leu Glu Pro Ile Glu Arg Asp Ile His Leu Leu Ser Arg Ile Cys
57                        85                  90                  95
58        Gln Glu Ser Arg Ser Leu Leu Ile Ile Met Leu Ile Ser Met Lys Phe
59                    100                 105                 110
60        Leu Lys Leu Lys Gln Met Leu Arg Asn Phe Leu Gln Val Gln Met Arg
61                    115                 120                 125
62        Asn
64  <210> SEQ ID NO: 3
65  <211> LENGTH: 1323
66  <212> TYPE: DNA
67  <213> ORGANISM: Cryptosporidium parvum
68  <400> SEQUENCE: 3
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70        acgatgcaaa gtcattattt gttttaaatc cagatggatc cggaattttg aaaaacattt     120
71        ctactaaatt cgaaattaaa tttgagcttg gcttgataaa tggtagttgg ctcggaggtg     180
72        atattttat ccttgatagg aaacacgctc ttgaagctgt aagttattca atcgcttgtg      240
73        ttttctatac aaaaacatgt tttgaaaaga atgaagcaca ttgtcttaaa ccctttaatc     300
74        gcgctgagaa taaaatgact tttggttctg agaaagactt agcgacaact ctccaatctt     360
75        ctaattctga atattatctt ttccttacat ggaataactg cattcttgga tatattccaa     420
76        ttaacacaaa taaaatcaac aaaatttctc ttgaaagttc cggagaaaac tcaatctcca     480
77        caattggata ttggagtatt atcgatggat tttcttcttc tttaattaaa catgcgccta     540
78        -taaaagaaaa tggccacttg aataatcaag aatcaaaata ttcaaaatga aataatgaag     600
79        ccactaaact caacaaatcc agaatcaggt gggaataact taactcagaa ccaaaacaca     660
80        aagcctcatc cagttgttag accgcatcct acagaaaagc cctcaaatgg tgaacatcaa     720
81        gaatctggtt cagagcaagc ccctattacc tcaccagaaa acgaatcaag ttcaaatcat     780
82        ccttctgtga cagttccaga tactggatca gttcaaatct ccttctgtta ctattccaga     840
83        gactggatca gactcagatc acgcgccttg tgacaattcc agagactgga tcagttcaaa     900
84        tcatcttctg ctactatacc agaaacagga tccagctcag atcacactct gctacttctc     960
85        cagaagaagg attggactca gaacgttacc aatcacttct acagaacaaa ctcaaagcca    1020
86        gctacatatc ctaaccaaga aaatgaaaat cataataatc aggaaggtaa ttcgagtttt    1080
87        aatacactaa atcttccaaa tcaacccaat ctttcacgca agctggcaga gtggaaagt     1140
88        tatggggaaa aggataaaat ggttgatggt gagcaagtaa tcactaaaaa tgacattatt    1200
89        gaagatactt cgaaagaaat tagaaacaaa atgtaaagta tctgcattga taaatatggc    1260
90        cttagccatt tccaaatatc taaattgtca actcaagtaa aaaaaaaaa aaaaaaactc    1320
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93  <210> SEQ ID NO: 4
94  <211> LENGTH: 193
95  <212> TYPE: PRT
96  <213> ORGANISM: Cryptosporidium parvum
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97  <400> SEQUENCE: 4
98        His Glu Ile Phe Phe Phe Leu Leu Pro Ile Ser Ile Ser Phe Phe Asp
99        1               5                   10                  15
100        Ser Asn Asp Ala Lys Ser Leu Phe Val Leu Asn Pro Asp Gly Ser Gly
101                    20                  25                  30
102        Ile Leu Lys Asn Ile Ser Thr Lys Phe Glu Ile Lys Phe Glu Leu Gly
103                    35                  40                  45
104        Leu Ile Asn Gly Ser Trp Leu Gly Gly Asp Ile Phe Ile Leu Asp Arg
105            50                  55                  60
106        Lys His Ala Leu Glu Ala Val Ser Tyr Ser Ile Ala Cys Val Phe Tyr
107        65                  70                  75                  80
108        Thr Lys Thr Cys Phe Glu Lys Asn Glu Ala His Cys Leu Lys Pro Phe
109                    85                  90                  95
110        Asn Arg Ala Glu Asn Lys Met Thr Phe Gly Ser Glu Lys Asp Leu Ala
111                    100                 105                 110
112        Thr Thr Leu Gln Ser Ser Asn Ser Glu Tyr Tyr Leu Phe Leu Thr Trp
113                    115                 120                 125
114        Asn Asn Cys Ile Leu Gly Tyr Ile Pro Ile Asn Thr Asn Lys Ile Asn
115            130                 135                 140
116        Lys Ile Ser Leu Glu Ser Ser Gly Glu Asn Ser Ile Ser Thr Ile Gly
117        145                 150                 155                 160
118        Tyr Trp Ser Ile Ile Asp Gly Phe Ser Ser Ser Leu Ile Lys His Ala
119                    165                 170                 175
120        Pro Ile Lys Glu Asn Gly His Leu Asn Asn Gln Glu Ser Lys Tyr Ser
121                    180                 185                 190
122        Lys
124  <210> SEQ ID NO: 5
125  <211> LENGTH: 29
126  <212> TYPE: DNA
127  <213> ORGANISM: Artificial
128  <220> FEATURE:
129  <223> OTHER INFORMATION: primer
130  <400> SEQUENCE: 5
131        gtcatatggc acgagaatta ccatctgat                                    29
133  <210> SEQ ID NO: 6
134  <211> LENGTH: 29
135  <212> TYPE: DNA
136  <213> ORGANISM: Artificial
137  <220> FEATURE:
138  <223> OTHER INFORMATION: primer
139  <400> SEQUENCE: 6
140        gacatatgtt aatttctcat ttgtacttg                                    29
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**RAW SEQUENCE LISTING ERROR SUMMARY**     · DATE: 04/18/2003
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Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6

**VERIFICATION SUMMARY**                    DATE: 04/18/2003
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